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Title: **JP8241709A2: MANUFACTURE OF NEGATIVE ELECTRODE OF NONAQUEOUS ELECTROLYTE BATTERY**

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Country: **JP** Japan
Kind: **A**

Inventor(s): **NISHIMURA WASUKE
TAKAHASHI RYUJI
OO FUMIO**

Applicant/Assignee: **MATSUSHITA ELECTRIC IND CO LTD**
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Issued/Filed Dates: **Sept. 17, 1996 / March 7, 1995**

Application Number: **JP1995000046966**

IPC Class: **H01M 4/12; H01M 4/04; H01M 6/02; H01M 6/16; H01M 10/40;**

Priority Number(s): **March 7, 1995 JP1995000046966**

Abstract:



Purpose: To manufacture the negative electrode without adhering lithium to the pressurizing surface of a pressurizing die at the time of manufacturing the negative electrode of a nonaqueous electrolyte battery by pressing a rectangular piece of lithium metal with a die having the specified pressurizing surface.

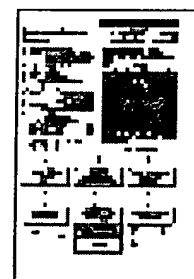
Constitution: A rectangular piece of lithium metal or lithium alloy is inserted into a negative electrode can or a lower die having the circular inner bottom surface. This rectangular piece is pressed by a die having the pressurizing surface, in which at least a part is formed into the rough surface, and having the material film having the excellent sliding property in relation to the lithium metal or lithium alloy in the rough surface of the pressurizing surface, and the rectangular piece is pressurized for deformation. In the case where the abutment area of the die is assumed at 100, the area of the rough surface at 65 or more is necessary. Shape of the die is formed into the concentric circular shape, spiral shape, radial shape, or random pattern having a groove at 0.02-0.30mm of depth. As the material film having the excellent sliding property, for example, the film made of liquid paraffin, fluoride group surface active agent, or Lewis base type organic solvent is used.

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Other Abstract Info: **CHEMABS 125(26)334207T CAN125(26)334207T DERABS C96-474126**



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Foreign References: No patents reference this one



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(19)

(11) Publication number: **08241709 A**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **07046966**(51) Intl. Cl.: **H01M 4/12 H01M 4/04 H01M 6/02 H01M 6/16 H01M 10/40**(22) Application date: **07.03.95**

(30) Priority:

(43) Date of application publication: **17.09.96**

(84) Designated contracting states:

(71) Applicant: **MATSUSHITA ELECTRIC IND CO LTD**(72) Inventor: **NISHIMURA WASUKE
TAKAHASHI RYUJI
OO FUMIO**

(74) Representative:

**(54) MANUFACTURE OF
NEGATIVE ELECTRODE OF
NONAQUEOUS
ELECTROLYTE BATTERY**

(57) Abstract:

PURPOSE: To manufacture the negative electrode without adhering lithium to the pressurizing surface of a pressurizing die at the time of manufacturing the negative electrode of a nonaqueous electrolyte battery by pressing a rectangular piece of lithium metal with a die having the specified pressurizing surface.

CONSTITUTION: A rectangular piece of lithium metal or lithium alloy is inserted into a negative electrode can or a lower die having the circular inner bottom surface. This rectangular piece is pressed by a die having the pressurizing surface, in which at least a part is formed into the rough surface, and having the material film having the excellent sliding property in relation to the lithium metal or lithium alloy in the rough surface of the pressurizing surface, and the rectangular piece is pressurized for

deformation. In the case where the abutment area of the die is assumed at 100, the area of the rough surface at 65 or more is necessary. Shape of the die is formed into the concentric circular shape, spiral shape, radial shape, or random pattern having a groove at 0.02-0.30mm of depth. As the material film having the excellent sliding property, for example, the film made of liquid paraffin, fluoride group surface active agent, or Lewis base type organic solvent is used.

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